

AF Midterm Topics for Study

Potential energy, Kinetic energy	The Periodic table
Physical and chemical properties and changes	Electron affinity
Metric units and conversions (temperature too)	Ionization energy
Calculations with density	Electronegativity
Volume calculations	Atomic radii
Scientific notation, significant digits	Chemical bonds, polar, nonpolar, ionic
How you know a reaction is taking place	Multiple bonding
Accuracy and Precision	Lewis structures, Octet Rule
Mixtures and pure substances	VSEPR
Law of definite composition	Intermolecular forces
Laws of conservation of matter and energy	Dipole-dipole interactions
Properties of elements	Hydrogen bonding
Atomic theory, law of multiple proportions	Ions
Rutherford, Millikan	Cris-Cross method
Mole concept	Naming Ionic compounds
Atomic number, mass number of elements	Naming Molecular compounds
Wave theory, Calculations using the wave equations	Naming Acids and Bases
Max Planck	* Molar Mass calculations
Bright line spectra	* Mole concept with compounds
Parts of the atom	* Percent compositions
Quantum theory	
Orbital, electron configuration notations and electron dot	
Periodic Law	